#### **Mobil Oil Corporation**

3800 WEST ALAMEDA AVENUE, SHITE 700. BURBANK, CALIFORNIA 91505-4331

January 19, 1993

Ms. Juliet Shin · Alameda County Department of Environmental Health Hazardous Materials Division 80 Swan Way, Room 200 Oakland, California 94621

> FORMER MOBIL SS# 10-L1X 15884 HESPERIAN BLVD. SAN LORENZO, CALIFORNIA

Dear Ms. Shin,

Enclosed is the Quarterly Monitoring Report and Quarterly Update Report for the above-referenced location, as prepared by our consultant, Hydro-Environmental Technologies, Inc. (HETI).

Groundwater samples were collected from the four existing groundwater monitoring wells on November 27, 1992. Detectable TPHq and BTEX concentrations were present in the samples collected from wells MW-2 and MW-7 (3.2- and 1.6-ppb benzene, respectively). Samples collected from wells MW-5 and MW-6 were ND for TPHg and BTEX.

I would like to thank you for your assistance in helping us obtain access to drill and install MWs in Hesperian Blvd. to assess the downgradient extent of groundwater contamination at this site. You will be advised of our schedule for installing these two wells when encroachment permits are finalized and drilling dates are scheduled.

Please review the enclosed reports. Should you have any comments or require additional information, please contact me at (818) 953-2649.

Sincerely,

Randy Begier

Environmental Project

Engineer

cc: Rich Hiett, CRWQCB - S.F. Bay Region (w/enclosure)
 G.G. Smith, Mobil



#### QUARTERLY MONITORING REPORT Sampling Date: November 27, 1992

Former Mobil S/S No. 10-L1X 15884 Hesperian Blvd. San Lorenzo, California

Prepared for:

#### MOBIL OIL CORPORATION

3800 West Alameda Avenue, Suite 2000 Burbank, CA 91505

Prepared by:

#### HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.

2363 Mariner Square Drive, Suite 243 Alameda, California 94501 HETI Job No. 8-019

December 16, 1992



#### CERTIFICATION

This report was prepared under the supervision of a registered professional engineer. All statements, conclusions and recommendations are based solely upon field observations and analytical analyses performed by a state-certified laboratory related to the work performed by Hydro-Environmental Technologies, Inc.

It is possible that variations in the soil or ground water conditions exist beyond the points explored in this investigation. Also, site conditions are subject to change at some time in the future due to variations in rainfall, temperature, regional water usage, or other factors.

The service performed by Hydro-Environmental Technologies, Inc. has been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the area of the site. No other warranty, expressed or implied, is made.

Hydro-Environmental Technologies, Inc. includes in this report chemical analytical data from a state-certified laboratory. These analyses are performed according to procedures suggested by the U.S. EPA and the State of California. Hydro-Environmental Technologies, Inc. is not responsible for laboratory errors in procedure or result reporting.

Please note that contamination of soil and ground water must be reported to the appropriate agencies in a timely manner.

HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.

Prepared by:

Henry A. Hurkmans Staff Geologist Reviewed by:

John H. Turney, P.E.

Senior Engin



#### 1.0 Introduction

The purpose of this report is to present the results of Hydro-Environmental Technologies, Inc.'s (HETI's) quarterly water sampling for the former Mobil Service Station No. 10-L1X previously located at 15884 Hesperian Boulevard in San Lorenzo, California. Well sampling was performed on November 27, 1992.

Work performed at the site by HETI included: (1) well gauging, (2) well purging, and (3) collection of ground water samples from each of the wells. All documentation related to the field work is appended to this report.

Ground water samples collected from the wells were analyzed for total low to medium boiling point petroleum hydrocarbons (TPHg), and benzene, toluene, ethylbenzene and total xylenes (BTEX), using EPA Methods 8015/8020 (DHS modified).

#### 2.0 Background

The site is located at 15884 Hesperian Blvd., in San Lorenzo, California (Figure 1), and is currently paved over and used as a parking lot for a shopping mall (Figure 2). Kaprealian Engineering, Inc. (KEI) installed four two-inch diameter monitoring wells, designated MW-1 through MW-4, at the site in July 1986. In preparation to abandon the site, the underground storage tanks were removed and the tank pit was overexcavated in December 1987.

Mobil retained HETI in October 1991 to continue with further subsurface investigation. After HETI's initial site inspection to locate the wells, the following conditions were observed. Monitoring well MW-2 was found in good condition, the casing to MW-3 was broken off and debris had filled in the well, and wells MW-1 and MW-4 could not be located and their existence/condition is unknown.

HETI installed three monitoring wells on-site, designated MW-5, MW-6 and MW-7, and properly abandoned monitoring well MW-3 in January 1992. Monitoring well locations are shown on the Site Plan (Figure 3). Results of that phase of investigation and detailed project history are presented in HETI's Phase I Report dated May 7, 1992.



#### 3.0 Field Activities

HETI collected water samples from monitoring wells MW-2, MW-5, MW-6 and MW-7 on November 27, 1992. Prior to sampling the depth to water in each of the wells was gauged to the nearest hundredth of a foot using an interface probe. No separate-phase petroleum was detected in any of the wells. Prior to sampling all monitoring wells were purged dry or until three well volumes had been removed. Gauging and purging data is included in Appendix A.

Following recovery of water levels in the wells to at least 70 percent of their static water level, water samples were collected from each well with a dedicated bailer. Each sample was transferred to sample containers appropriate for the analysis to be performed. Sample containers were labeled and placed in a chilled cooler. A chain of custody was prepared and accompanied the samples to the laboratory; a copy is included in Appendix B. Water sample analyses were performed by Sequoia Analytical, a State DHS-certified laboratory located in Redwood City, California.

#### 4.0 Results of Monitoring

#### 4.1 Ground Water Data

The depth to ground water in each of the wells was approximately 15 feet below grade, according to the well gauging conducted for this monitoring. The depth to water data was combined with wellhead elevation data previously collected by HETI to calculate ground water elevations. These elevations were used to produce the ground water contours shown on Figure 4. Ground water flows towards the southwest at a gradient of 0.0027 ft/ft (0.27%). Ground water levels in the wells have decreased approximately 0.5 foot since the last quarter. Ground water flow direction and gradient calculated during this quarter are generally consistent with those calculated previously.

#### 4.2 Laboratory Analytical Results

TPHg and BTEX compounds were detected in the water sample collected from well MW-7 at concentrations of 82 and 1.6/ND/4.3/3.6 parts per billion (ppb), respectively. TPHg and BTEX compounds were detected in the water sample collected from well MW-2 at concentrations of 56 and 3.2/ND/0.87/2.1 ppb, respectively. TPHg and BTEX compounds were not detected in concentrations exceeding the method detection limit in water samples collected from wells MW-5 and MW-6.



Water sample analytical results are summarized in Table 1 and presented graphically on the TPHg and BTEX Concentration Map (Figure 5). Cumulative water sample analytical results are summarized in Table 2. A copy of the laboratory report is included in Appendix B.

#### 5.0 Status of Investigative Activities

HETI is obtaining an encroachment permit from the Alameda County Department of Public Works to allow the installation of two off-site wells in Hesperian Boulevard. These wells will be used to assess the downgradient extent of the dissolved hydrocarbon plume. Details of the next phase of investigation can be found in HETI's proposed workplan dated May 11, 1992.

## **TABLES**

# Table 1 GROUND WATER SAMPLES SUMMARY OF ANALYTICAL RESULTS Former Mobil Station No. 10-L1X

#### 15884 Hesperian Boulevard San Lorenzo, California

Sampling Date: November 27, 1992

MW No.	TPHg (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)
MW-2	56	3.2	ND	0.87	2.1
MW-5	ND	ND	ND	ND	ND
MW-6	ND	ND	ND	ND	ND
MW-7	82	1.6	ND	4.3	3.6
MDL	50	0.50	0.50	0.50	0.50

TPHg = Total low to medium boiling point petroleum hydrocarbons by EPA Method 8015 (DHS modified)

B = Benzene

T = Toluene

E = Ethylbenzene

X = Total Xylenes

BTEX analyzed by EPA Method 8020

ND = Not detected at concentrations exceeding the method detection limit

MDL = Method detection limits

# Table 2 GROUND WATER SAMPLES CUMULATIVE ANALYTICAL RESULTS

#### Mobil Service Station No. 10-L1X 15884 Hesperian Boulevard San Lorenzo, California

MW No.	Date	TPHg (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	
MW-2	2/12/92	190	4.4	ND<0.30	4.7	3.8	
	5/4/92	480	9.1	1.4	4.4	2.3	
	8/20/92	ND<50	0.99	ND<0.50	ND<0.50	ND<0.50	
	11/27/92	56	3.2	ND<0.50	0.87	2.1	
MW-5	2/12/92	0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	
	5/4/92	ND<30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	
	8/20/92	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	11/27/92	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
MW-6	2/12/92	2,700	14	3.5	27	39	
			ND<0.30	ND<0.30	ND<0.30	ND<0.30	
			ND<0.50	ND<0.50	ND<0.50	3.8	
	11/27/92	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
MW-7	2/12/92	ND<30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	
		640	4.5	ND<0.60	11	14	
		_	_			4.3	
						3.6	
MW-6	2/12/92 5/4/92 8/20/92 11/27/92 2/12/92 5/4/92 8/20/92 11/27/92		ND<0.30 ND<0.50 ND<0.50	ND<0.30 ND<0.50 ND<0.50	ND<0.30 ND<0.50 ND<0.50	ND ND ND	

TPHg = Total low to medium boiling point petroleum hydrocarbons

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

TPHg/BTEX by EPA Method 5030/8015/8020

ND = Not detected at concentrations exceeding the method detection limit.

MDL = Method detection limit

Note: For the 2/12/92 and 5/4/92 sampling rounds, the following analytes were <u>not detected</u> at concentrations exceeding the method detection limits, in the water samples collected from MW5:

TPHd = Total high boiling point petroleum hydrocarbons by EPA Method 8015M, MDL = 50 ppb

TOG = Total oil and grease by EPA Method 413.2 (I.R.), MDL = 1.0 ppm

HVO = Halogenated volatile organics by EPA Method 5030/8010, MDL = 0.50-5.0 ppb

Cd,Cr, Ni, and Zn = Cadmium, chromium, nickel, and zinc EPA Method 6000, MDL = 0.010-0.050

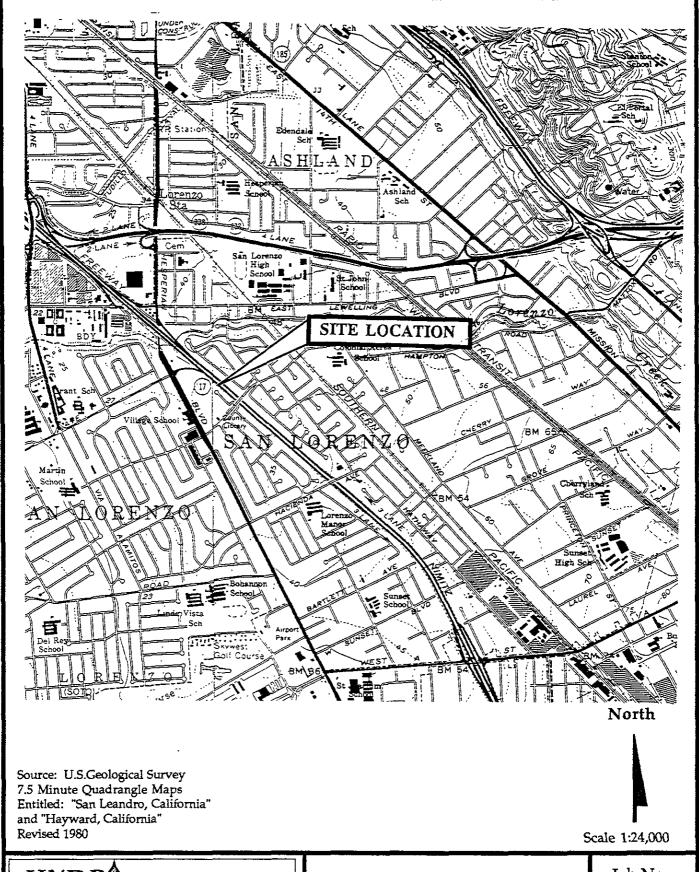
O-Pb = Organic lead by California LUFT (rev.), MDL = 0.050ppm

Note: For the 8/20/92 sampling round, the above listed analytes (with the exception of Zn at 0.012 ppm) and the below listed analytes were <u>not detected</u> at concentrations exceeding the method detection limits, in the water sample collecteds from MW-5:

SVO = Semi-volatile organics by EPA Method 8270 GC/MS, MDL = 2.0-10 ppb

PCB = Polychlorinated biphenyls by EPA Method 8080, MDL = 0.50-2.0 ppb

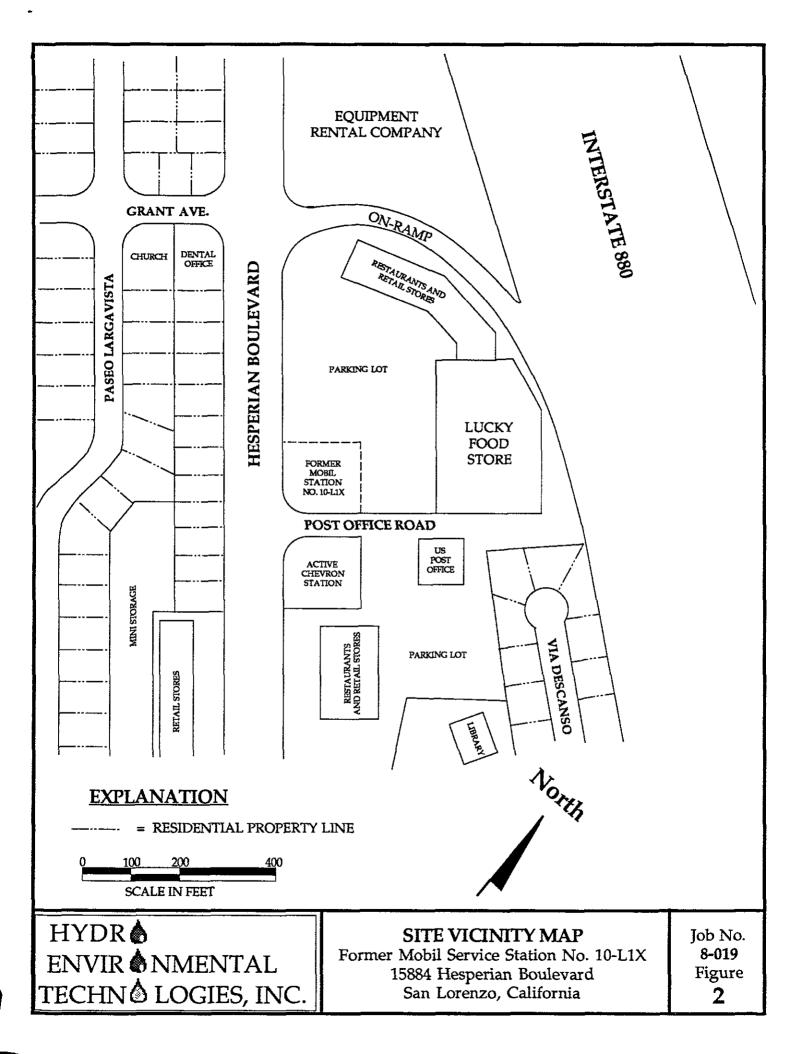
### **FIGURES**



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#### SITE LOCATION MAP

Former Mobil Service Station No. 10-L1X 15884 Hesperian Boulevard San Lorenzo, California



FORMER PUMP ISLANDS HESPERIAN BLVD. PARKING LOT FORMER STATION BUILDING MW-6 MW-5 PARKING LOT FORMER UST MW-2 FIELD MW-7 POST OFFICE ST. (PRIVATE ROAD)

# EXPLANATION FOUR-INCH WELL INST

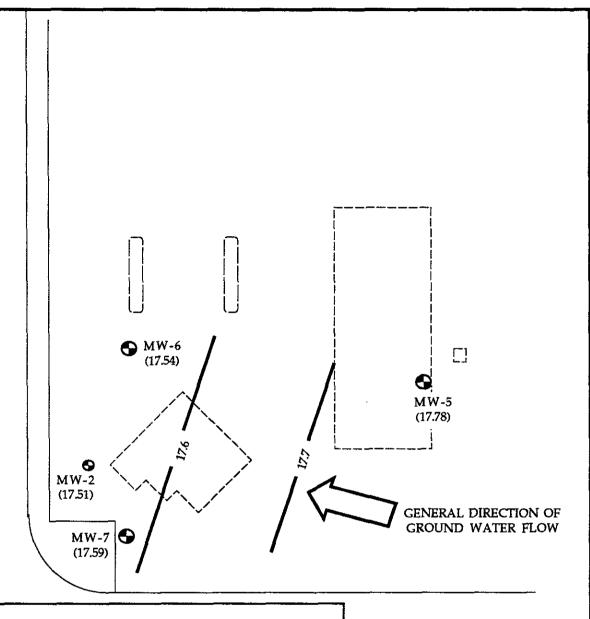
- MW-4 = FOUR-INCH WELL INSTALLED BY HETI
- MW-2 = TWO-INCH WELL INSTALLED BY KEI
- B-7 = SOIL BORING BY HETI



HYDRA
ENVIRANMENTAL
TECHNALOGIES, INC.

#### SITE PLAN

Former Mobil Station No. 10-L1X 15884 Hesperian Blvd. San Lorenzo, California



#### **EXPLANATION**

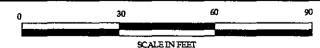
- MW-4 = FOUR-INCH WELL INSTALLED BY HETI
- MW-2 = TWO-INCH WELL INSTALLED BY KEI

(17.59) = ELEVATION OF GROUND WATER - IN FEET

BASED ON PROJECT DATUM

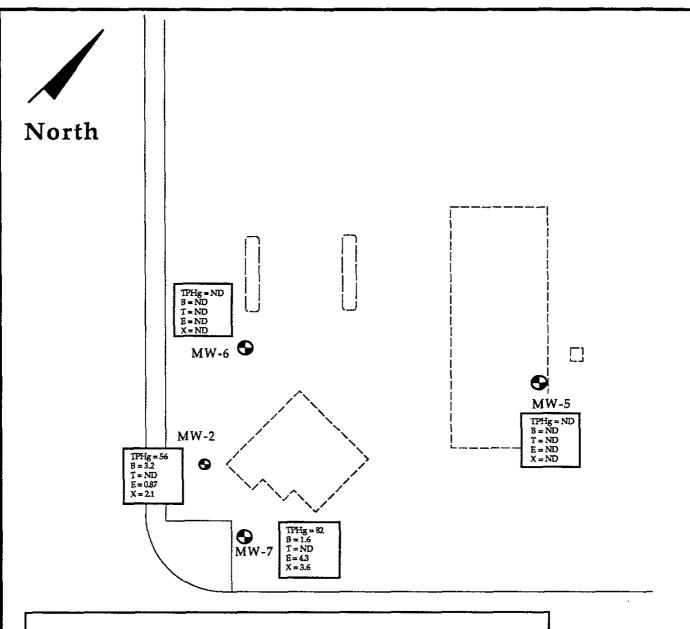
ESTIMATED GROUND WATER ELEVATION CONTOUR IN FEET - BASED ON PROJECT DATUM

BASED ON DATA COLLECTED 11/27/92



**HYDR ENVIR** MENTAL TECHN@LOGIES, INC.

POTENTIOMETRIC SURFACE MAP Former Mobil Station No. 10-L1X 15884 Hesperian Blvd. San Lorenzo, California



#### **EXPLANATION**

- ♠ MW-5 = FOUR-INCH WELL INSTALLED BY HETI
- MW-2 = EXISTING TWO-INCH WELL INSTALLED BY KEI

TPHg = ND
B = ND
T = ND
E = ND
X = ND

 CONCENTRATION OF DISSOLVED HYDROCARBONS AS GASOLINE (TPHg), BENZENE (B), TOLUENE (T), ETHYLBENZENE (E), AND TOTAL XYLENES (X), DETECTED IN GROUND WATER SAMPLE - IN PPB

SAMPLES COLLECTED 11/27/92



HYDRA ENVIRANMENTAL TECHNALOGIES, INC.

## TPHg AND BTEX CONCENTRATION MAP

Former Mobil Station No. 10-L1x 15884 Hesperian Blvd. San Lorenzo, California

### APPENDIX A

#### HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.

#### WATER TABLE ELEVATION DATA

Location: 15884 Hesperian Blvd., San Lorenzo, California

Client:	MO	BIL OIL CO	Job No. 8-019					
MW No.	Elev. T.C.*	DTW	Date Measured	Elev. Water	Remarks/Observations			
MW-2	31.81	14.30	11/27/92	17.51	Tan color, high turbidity, good recharge			
MW-5	32.92	15.14	11/27/92	17.78	Light tan color, moderate turbidity, poor recharge			
MW-6	32.68	15.14	11/27/92	17.54	Tan color, moderate turbidity, poor recharge			
MW-7	33.08	15.49	11/27/92	17.59	Tan color, moderate turbidity, poor recharge			
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		_						
	·							
			<u>.</u>					
Project Datum: Top of Fire Hydrant - Northeast Corner of Hesperian and Post Off Assumed Elev = 35 MS								

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D <del>epth</del> to bo									
PURGING I Purge metho		Submersible pur	np/ Suction lift	pump/					
·	Time	Volume (gallons)	Temp. (°F)	Conductivity (mS/cm)	pН	Note:			
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						77			
						SH Color			
						reading			
						dings			
	Color: 1			idity: Mig	1	1			
1	Recharge:	good	SPP_	<u></u>					
Sample for: (circle)  IPHg/STEX METALS TOC 8010  IPHG OPS TEL 8020  Sampling method: Dedicated bailer / IPH no Total Po ED8 8240  Other: Other:									
	RONMEN' NOCIE	1 8	V	WELL PURGESAI VEIL # MY- 2 Former Mol San Loren	ail_	JOB NO. G-019			

· •									
PURGED/S	AMPLED BY:	HH		DATE: 1	(-27-	92			
Caucing Data:  Depth to bottom: 32.21 ft.  Depth to water: 15.14 ft.  Saturated Thickness: 7.07ft.  Conversion  Conversion  Gall Conversion  Conversion  Well casing volume gallons  # volumes to purge x 3 vols.  *Total volume to purge = 14 gallons  * unless chemical parameters stabilize earlier									
PURGING I  Purge metho (circle one)	DATA: od PVC bailer	Submersible pur	np/ Suction lift	: pump/		No C;			
	Time	Volume (gallons)	Temp. (°F)	Conductivity (mS/cm)	pН	]:- F			
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	Color:	tan	Turb	idity: <u>Mod</u> c	erate	न लेल			
	Recharge:	P005	SPP_	ft.		•			
SAMPLIN	G DATA:				nple for: (circle)				
Sampling	method: Dedica	ated bailer/_		INN INN		072 <b>0</b>			
				601	602 Nitrates 8	250 8270			
HYDI	T			G WELL PURGE/SAI	MPLE SHEET	JOB NO.			
<b>5</b>	R♠NMENT N♠LOGIE	1 1		Former Mbl		4019			
	. • • • • • • • •			SAN Loren	LU				

•							
PURGED/SA	AMPLED BY:	44		DATE:	-27-	92	
1 -	TA: tom: <u>22.27</u> ter: <u>15.14</u> 7.13	ft diam.	0 (	Well casing volume # volumes to purg *Total volume to purg * unless chemical para	e x3	vols_ }gallons	
PURGING D Purge metho (circle one)		Subme <del>rsi</del> ble pu	mp/ Suction lift	: pump/		z	
	Time	Volume (gallons)	Temp. (°F)	Conductivity (mS/cm)	pН	Vote	
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my_	1.58	12				100	
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, and the second second						dac	
						100	
	1,			la de la a	1.2	5	
	Color:/A			idity: <u>Modua</u> <u> </u>	<i>***</i>		
Sample for: (circle)  Sample for: (circle)  IPHS/SIEX METALS TOC 8010  IPHM 0-P5 TEL 8020  Sampling method: Dedicated bailer / IPH no Total P5 ED8 8240  601 602 Nitrates 8250 8270  Other:							
HYDR	Υ	CAT		GWELL PURGE/SAN WELL # MW- 6	PLE SHEET	JOB NO.	
	NMEN LOGIE	1 1		Former Mok San Loren		4019	

· •											
PURGED/SA	AMPLED BY:	44		DATE: 1	-27-	92					
Depth to bot	- // : The										
PURGING D  Purge metho (circle one)		Submersible pur	mp/ Suction lift	: pump/		No.					
	Time	Volume (gallons)	Temp.	Conductivity (mS/cm)	pΗ	Note:					
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dy-	7:31	\ 0				Ì					
						7 7 6					
5.5						1 P . ( )					
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Sample for: (circle)  Sampling DATA:  PHy/STEX METALS TOC 8010  TOTAL OFF TEL 8020  TOTAL TOCAL PS EDS 8240  Color:  Other:											
11	ROMEN NO LOGIE	11	7	GWELL PURGESAN WELL # MW-7 Former Mol San Locen	sil	job no. 4 019					

### APPENDIX B



Hydro Environmental

Client Project ID:

Mobil, 10-LIX Water

Sampled:

Nov 27, 1992 Dec 1, 1992.

Alameda, CA 94501

2363 Mariner Square Dr., Bldg. 3, Suite 243 Sample Matrix:

EPA 5030/8015/8020

Received: Reported:

Dec 8, 1992

Attention: Brian Gwinn

Analysis Method: First Sample #:

212-0100

#### TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit μg/L	Sample I.D. 212-0100 MW-2	Sample I.D. 212-0101 MW-5	Sample I.D. 212-0102 MW-6	Sample I.D. 212-0103 MW-7	Sample I.D.	Sample I.D.
Purgeable Hydrocarbons	50	56	N.D.	N.D.	82		
Benzene	0.50	3.2	N.D.	N.D.	1.6		
Toluene	0.50	N.D.	N.D.	N.D.	N.D.		
Ethyl Benzene	0.50	0.87	N.D.	N.D.	4.3		
Total Xylenes	0.50	2.1	N.D.	N.D.	3.6		
Chromatogram Pattern:		Gas	-+		Gas		

**Quality Control Data** 

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	
Date Analyzed:	12/5/92	12/5/92	12/5/92	12/5/92	
Instrument Identification:	GCHP-2	GCHP-2	GCHP-2	GCHP-2	
Surrogate Recovery, %: (QC Limits = 70-130%)	100	98	98	99	

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard. Analytes reported as N.D. were not detected above the stated reporting limit.

**SEQUOIA ANALYTICAL** 

Maile A. Springer Project Manager



Hydro Environmental

Hydro Environmental Client Project ID: Mobil, 10-LIX

2363 Mariner Square Dr., Bldg. 3, Suite 243

Alameda, CA 94501

Attention: Brian Gwinn QC Sample Group: 2120100 - 103 Reported: Dec 8, 1992

#### QUALITY CONTROL DATA REPORT

ANALYTE	Ethyl-								
74 57 to 1 to	Benzene	Toluene	Benzene	Xylenes					
Method: Analyst: Reporting Units: Date Analyzed: QC Sample #:	EPA 8020 A. Mirattab μg/L Dec 5, 1992 GBLK120592	EPA 8020 A. Miraftab μg/L Dec 5, 1992 GBLK120592	EPA 8020 A. Miraftab μg/L Dec 5, 1992 GBLK120592	EPA 8020 A. Miraftab μg/L Dec 5, 1992 GBLK120592					
Sample Conc.:	N.D.	N.D.	N.D.	N.D.					
Spike Conc. Added:	10	10	10	30					
Conc. Matrix Spike:	9.6	9.6	9.6	29					
Matrix Spike % Recovery:	96	96	96	97					
Conc. Matrix Spike Dup.:	10	10	9.9	10					
Matrix Spike Duplicate % Recovery:	100	100	99	100					
Relative % Difference:	4.1	4.1	3.1	3.4					

**SEQUOIA ANALYTICAL** 

Maile A. Springer Project Manager

x 100 % Recovery: Conc. of M.S. - Conc. of Sample Spike Conc. Added

Relative % Difference:

Conc. of M.S. - Conc. of M.S.D.

x 100

(Conc. of M.S. + Conc. of M.S.D.) / 2

# Mobil Chain of Custod P SEQUOIA ANALYTICAL

**Redwood City:** Concord: Sacramento:

(415) 364-9600 (510) 686-9600 (916) 921-9600

17 - 1 -92/11/05/Page 1 of 1

Phase of Work: Consulting Firm Name: Hydro-Environmental Tech., Inc. Site SS#: 10-LIX A. Emrg. Response Address: 2363 Mariner Square Dr. #243 Mobil Site Address: 15884 Hesperian, B. Site Assessment

	city: Alam	oda sta	ite:   CA	Zip	Code: 9450	<u>l M</u>	obil E	ngineer:	Ra	ndy	s av Beg	LAN.		C. Remedia	
	Telephone: 510													D. Monitorir	ng
	Project Contact: Brian Gwinn Sampled by: Henry Hucky											0	E. OGC/Cla	aims	
•	Turnaround Time: X Standard TAT (5 - 10 Working Days)								ed /	7_	7 				
	Client Sample I.D.	Date/Time Sampled	Matrix Description	# of Containers	Sequoia's Sample #		(3) (4)		W O'C		$\angle$		_	Comm	nents
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	2. MW-5				101	X					ļ				
	3. MW-6				102	<del>[                                    </del>				 				<u> </u>	
	4. MW-7	<u> </u>	<u> </u>		<b>→</b> 103	X					-	<del> </del>			
	5.														
	6.														
	7.						<u> </u>				<u> </u>				
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l	9.	<u>'</u>				-				<u> </u>	<del>                                     </del>			1	
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	Relinquished By:_	Deny 16	-b-a	*.	30/12 Time: Zi	ŀ		$\mathcal{A}$	1	Year.	<u> </u>			Time: 14/0	
I	Dalinguiched By:			Date: /2//	92 Time: (1	ΚħΙ	Recei	ved Bv.\	11	J		Date:	11.92	Time: 128	<u> 50-</u>



2363 Mariner Square Drive, Suite 213 Alameda, CA 94501 Tel 510-521-2684 Fax 510-521-5078

1-800-347-HETI Massachusetts New York

# Mobil Oil Corporation Quarterly Update Report Former Mobil Service Station 10-L1X

Site Address: 15884 Hesperian Blvd., San Lorenzo, California Hydro-Environmental Technologies, Inc. Project No. 8-019

Brian Gwinn - Project Manager Telephone Number: (510) 521-2684

Date: December 7, 1992 (covers the period from July to September, 1992)

#### Background:

In March, 1986, Mobil retained KEI to collect soil samples during the removal of three underground steel gasoline storage tanks and one waste oil tank from the site. In July, 1986, KEI installed and sampled four monitoring wells at the site. In December, 1987, KEI collected soil samples during the removal of four fiberglass underground storage tanks from the site. KEI continued monitoring the site until November, 1988.

In October, 1991, HETI was retained by Mobil to perform a subsurface investigation at the site. The site was no longer used as an active station and was instead used as a portion of a parking lot for a shopping center. Two of KEI's wells were found to exist at the site, but one was filled with debris and was not useable. In January 1992, HETI installed three additional on-site monitoring wells.

Current site work involves quarterly monitoring of the existing wells, and permitting to install additional, off-site downgradient monitoring wells to further evaluate the extent of the dissolved hydrocarbon plume. Preferred off-site well locations are in Hesperian Blvd.; however, the Alameda County Department of Public Works has indicated that the monitoring well "shall be located out of the travelled way." At that juncture of permitting, Mobil requested aid in obtaining access to Hesperian Boulevard from the Alameda County Department of Environmental Health. In addition, Mobil also requested access to several residential properties located opposite the site, across Hesperian Blvd. As of this date, three property owners have denied access.

#### Recent Field Work Performed:

- Quarterly water samples were collected on August 20, 1992.

#### Reporting:

- A Quarterly Monitoring Report (presenting the results of the August 20, 1992 sampling) was submitted to Mobil on September 30, 1992.

#### Site Status:

- The downgradient extent of the dissolved hydrocarbon plume has not been delineated.



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- Preferred downgradient drilling are located in the middle of Hesperian Blvd. Request for access to Hesperian Blvd. is being aided Alameda County Department of Environmental Health.
- Alternative (second choice) off-site drilling locations are located further downgradient on residential property. Requests for access have been submitted to several downgradient property owners.

#### Future Activities:

- Continue quarterly sampling to monitor dissolved hydrocarbon distribution.
- Install additional off-site monitoring wells to further delineate the downgradient extent of the hydrocarbon plume once access agreements/encroachment permits are obtained.

Brian Gwinn Project Manager